EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3414	(expand$4 adj graphite or exfoliat$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2008/12/17 16:44
S2	3132	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:51
S3	2495	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (vermiculite or mica or biotite or phlogopite)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:51
S4	2394618	(multilayer or (multi or many or different) adj2 (layer$3 or strata or coat$4) or layer$4 or composit$2 or coating)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:51
S5	199	S2 same S3	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:52
S6	64	S5 same S4	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:52
S7	3132	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S8	2495	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (vermiculite or mica or biotite or phlogopite)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S9	2394618	(multilayer or (multi or many or different) adj2 (layer$3 or strata or coat$4) or layer$4 or composit$2 or coating)	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S10	199	S7 same S8	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S11	64	S10 same S9	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S12	51	S11 AND @py<="2006"	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 08:58
S13	1253	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (graphite or graphoil or grafoil)	EPO; JPO	ADJ	OFF	2008/12/18 10:18
S14	210	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (vermiculite or mica or biotite or phlogopite)	EPO; JPO	ADJ	OFF	2008/12/18 10:18
S15	1378439	(multilayer or (multi or many or different) adj2 (layer$3 or strata or coat$4) or layer$4 or composit$2 or coating)	EPO; JPO	ADJ	OFF	2008/12/18 10:18
S16	26	S13 and S14	EPO; JPO	ADJ	OFF	2008/12/18 10:19

S17	2305	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (graphite or graphoil or grafoil)	DERWENT	ADJ	OFF	2008/12/18 10:35
S18	1090	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 (vermiculite or mica or biotite or phlogopite)	DERWENT	ADJ	OFF	2008/12/18 10:36
S19	2205399	(multilayer or (multi or many or different) adj2 (layer$3 or strata or coat$4) or layer$4 or composit $2 or coating)	DERWENT	ADJ	OFF	2008/12/18 10:36
S20	74	S17 and S18	DERWENT	ADJ	OFF	2008/12/18 10:36
S21	30	S20 and S19	DERWENT	ADJ	OFF	2008/12/18 10:37
S22	1	"6051193".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 10:52
S23	1	"6279229".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 10:53
S24	0	EP19900312440	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 11:05
S25	0	EP "19900312440"	US-PGPUB; USPAT; EPO; DERWENT	ADJ	OFF	2008/12/18 11:06
S26	0	("EP19900312440").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/12/18 11:06
S27	0	EP19900312440	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2008/12/18 11:09
S28	11	Yang, Julie C	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2008/12/18 11:09
S29	2	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 hydrated adj1 magnesium adj1 aluminum adj1 iron adj1 silicate	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 11:47
S30	0	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 hydrated adj1 magnesium adj1 aluminum adj1 iron adj1 silicate	DERWENT	ADJ	OFF	2008/12/18 11:49
S31	0	(expand$4 OR intumesc$4 OR inflate$4 OR exfoliat$4) near4 hydrated adj1 magnesium adj1 aluminum adj1 iron adj1 silicate	EPO; JPO	ADJ	OFF	2008/12/18 11:49
S32	1	"6051193".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/12/18 17:00

S33	3727	(expand$4 with graphite) or (exfoliat$4 with (graphite and graphoil or grafoil)) and vermiculite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:32
S34	4009	(expand$4 with graphite) or (exfoliat$4 with graphite) or graphoil or grafoil and vermiculite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:32
S35	4009	(expand$4 with graphite) or (exfoliat$4 with graphite) or graphoil or grafoil and (vermiculite or lamellar)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:33
S36	412	S35 and composite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:33
S37	47	S36 and (compress or press)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:34
S38	115	S36 and (compress$3 or press)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:34
S39	130	((expand$4 with graphite) or (exfoliat$4 with graphite) or graphoil or grafoil) and ((expand $4 with vermiculite) or (exfoliat$4 with vermiculite) or lamellar)	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:35
S40	17	S39 and composite	EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 15:35
S41	353	((expand$4 with graphite) or (exfoliat$4 with graphite) or graphoil or grafoil) and ((expand $4 with vermiculite) or (exfoliat$4 with vermiculite) or lamellar)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:48
S42	272	S41 and (layer$4 or multilayer$4)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:49
S43	161	S42 and composite	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:49
S44	114	S43 and (compress$4 or press)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:50
S45	144	((expand$4 adj graphite) or (exfoliat$4 adj graphite) or graphoil or grafoil) and ((expand $4 adj vermiculite) or (exfoliat$4 adj vermiculite) or lamellar)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:50
S46	119	S45 and (layer$4 or multilayer$4)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:50
S47	58	S46 and composite	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:51
S48	45	S47 and (compress$4 or press)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 15:51
S49	1	"5612272".PN.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 16:24
S50	65	S45 and composite	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 16:27
S51	7	S50 not S47	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/03/30 16:28

S52	5	WO-02069415-$.DID. OR EP-0568270-$.DID. OR US-5247005-$.DID. OR US-5288429-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 16:31
S53	2	US-5607889-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/30 16:31
S54	1204	compress$3 composite	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:30
S55	16029	compress$3 with composite	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:31
S56	202	S55 and (adjacent layer)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:31
S57	1	S56 and orthogonal	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:31
S58	147557	compress$3 and composite	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:32
S59	1617	S58 and (adjacent layer)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:32
S60	173	S59 and orthogonal	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:33
S61	1	S60 and single direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:33
S62	0	S58 and (compress$4 with three orthogonal direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:41
S63	22	S58 and (compress$4 with orthogonal direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:41
S64	17959	S58 and (multi layer or multilayer or many layers or multiple layer)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:42
S65	0	S64 and compress$4 with (multiple or many) direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:43
S66	1563	S64 and compress$4 with direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:43
S67	0	S64 and compress$4 with (many or multiple or different) adjdirection	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:44
S68	2	S64 and compress$4 with (many or multiple or different) adj direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:44
S69	31	S66 and compress$4 and orthogonal direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:45
S70	2595	(264/110,112,113,241).CCLS.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:47
S71	2	S70 and (expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil) and vermiculite and (layer$4 or multilayer$4)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 09:48
S72	0	("2009/0072448").URPN.	USPAT	ADJ	OFF	2009/03/31 09:51

S73	1	S70 and (expand$4 with graphite or exfoliat$4 with graphite or grapholl or grafoil) and vermiculite and (layer$4 or multilayer$4)	USPAT	ADJ	OFF	2009/03/31 09:52
S74	17	S70 and (expand$4 with graphite or exfoliat$4 with graphite or grapholl or grafoil)	USPAT	ADJ	OFF	2009/03/31 09:53
S75	0	S70 and compress$4 with (many or multiple or different) adj direction	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:00
S76	0	(carbon graphite) with particle$2 same (layer$4 multilayer$4 coat $4) and (vermiculite mica clay) with particle$2 same (layer$4 multilayer$4 coat$4)	USPAT	ADJ	OFF	2009/03/31 10:01
S77	21	US-6605379-$.DID. OR WO-02069415-$.DID. OR EP-0568270-$.DID. OR US-3703693-$.DID. OR US-2094367-$.DID. OR DE-69311964-$.DID. OR DE-69311964D1-$.DID. OR US-5309690-$.DID. OR US-9302755-$.DID. OR US-5247005-$.DID. OR DE-4117074-$.DID. OR US-2069219-$.DID. OR DE-59202790-$.DID. OR DE-59202790D-$.DID. OR EP-0515891-$.DID. OR JP-5221721-$.DID. OR US-5288429-$.DID. OR DE-4117077-$.DID. OR US-2069220-$.DID. OR DE-59202791-$.DID. OR DE-59202791D1-$.DID. OR EP-0515892-$.DID. OR JP-5201758-$.DID. OR US-5607889-$.DID. OR US-2715082-$.DID. OR US-2140486-$.DID. OR DE-69504538-$.DID. OR DE-69504538D-$.DID. OR EP-0664158-$.DID. OR JP-7257917-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 10:03
S78	2714	(expand$4 with graphite or exfoliat $4 with graphite or graphoil or grafoil)	USPAT	ADJ	OFF	2009/03/31 10:15
S79	159	S78 and layer and (compress$4 with direction)	USPAT	ADJ	OFF	2009/03/31 10:16
S80	3	S78 and layer and (compress$4 with (multi$4 or many or different or perpendicular$2 or orthogonal) direction)	USPAT	ADJ	OFF	2009/03/31 10:17
S81	67	S78 and ((multi$4 or many or different or perpendicular$2 or orthogonal) direction)	USPAT	ADJ	OFF	2009/03/31 10:20
S82	16	(expand$4 with graphite or exfoliat $4 with graphite or graphoil or grafoil) and ($4press$4 with (multi $4 or many or different or perpendicular$2 or orthogonal) direction)	USPAT	ADJ	OFF	2009/03/31 10:32

S83	0	"34040561".PN.	USPAT	ADJ	OFF	2009/03/31 10:42
S84	1	"3404061".PN.	USPAT	ADJ	OFF	2009/03/31 10:42
S85	4635	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:43
S86	159	S78 and layer and (compress$4 with direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:43
S87	344	S85 and layer and (compress$4 with direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:43
S88	128	S85 and ((multi$4 or many or different or perpendicular$2 or orthogonal) direction)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:44
S89	613	Da Silva.IN.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:49
S90	0	Da Silva-Serge.IN.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:50
S91	0	Da Silva-Serge.in.	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:50
S92	3	S89 and serge	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 10:51
S93	7271	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 10:54
S94	27	S93 and ($4press$4 with (multi$4 or many or different or perpendicular$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 10:54
S95	7	US-5247005-$.DID. OR US-5288429-$.DID. OR US-5607889-$.DID. OR WO-02069415-$.DID. OR EP-0568270-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 10:59
S96	0	active composte	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 11:00
S97	458	active composite	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/03/31 11:00
S98	5	S97 and ($4press$4 with (multi$4 or many or different or perpendicular$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:01
S99	7	S97 and ((multi$4 or many or different or perpendicular$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:02
S100	2	S99 not S98	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:03
S101	136	S93 and ((multi$4 or many or different or perpendicular$2 or orthogonal) direction)	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:05

S102	109	S101 not S94	US-PGPUB; USPAT; DERWENT	ADJ	OFF	2009/03/31 11:05
S103	8978	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 11:07
S104	2	S103 and ((compress$4 or press $4) same ((x y z direction) OR (a b c direction)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 11:08
S105	3	S103 and ((compress$4 or press $4) same (orthogonal direction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 11:11
S106	92	S103 and (recess$4 or cavit$4 or (capture form)) and (infra red OR infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:03
S107	4	S103 and (recess$4 or cavit$4 or (capture form)) with (infra red OR infrared)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:03
S108	4	S103 and ((recess$4 or cavit$4 or (capture form)) with (infra red OR infrared))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:03
S109	31	press with surface with (expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:22
S110	0	vermiculite lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58
S111	0	vermiculite with lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58

S112	0	vermiculite same lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58
S113	0	vermiculite and lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:58
S114	1	vermiculite and lyophiliz$4 with enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/03/31 14:59
S115	1337	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil) and mold	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:00
S116	501	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil) and mold and (vermiculite or mica or clay)	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:02
S117	7	S116 and (recess or form or cavity) and infrared radiation	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:02
S118	1159	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil) and tube	US-PGPUB; USPAT	ADJ	OFF	2009/03/31 15:21
S119	1	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil) and permanent tube	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 09:21
S120	1	"6037074".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 09:22
S121	23	(expand$4 with graphite or exfoliat$4 with graphite or graphoil or grafoil) and vermiculite with coat$4	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:08
S122	2282	expand$4 adj graphite	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:15
S123	742	expand$4 adj vermiculite	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:16
S124	35	S122 and S123	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:16
S125	10	S124 and composite	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 10:16
S126	13	("5853675").URPN.	USPAT	ADJ	OFF	2009/04/01 10:22
S127	0	S126 and S122 and S123 and S125	USPAT	ADJ	OFF	2009/04/01 10:23
S128	1	S126 and S122 and S123	USPAT	ADJ	OFF	2009/04/01 10:23

S129	1	S126 and S122 and (vermiculite OR mica or clay)	USPAT	ADJ	OFF	2009/04/01 11:14
S130	8	S126 and (S122 or intumescent) and (vermiculite OR mica or clay)	USPAT	ADJ	OFF	2009/04/01 11:18
S131	304	composite and ((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))	USPAT	ADJ	OFF	2009/04/01 11:21
S132	629	composite and ((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:21
S133	596	S132 and (layer$4 or multilayer$4 or coat$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:21
S134	190	S133 and (perlite or silicon dioxide or SiO2 or dialuminum trioxide or Al2O3 or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:23
S135	1	"4929429".PN.	USPAT	ADJ	OFF	2009/04/01 11:26
S136	105	composite same (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:28
S137	99	S136 and (layer$4 or multilayer$4 or coat$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:28
S138	27	S137 and (perlite or silicon dioxide or SiO2 or dialuminum trioxide or Al2O3 or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:29
S139	41	("3916057" | "4048363" | "4220500" | "4271228" | "4285909" | "4305992" | "4454190" | "4495030" | "4499134" | "4504527" | "4600634" | "4612087" | "4750251" | "4782661" | "4863700" | "4865818" | "4879170" | "4929429" | "4999168" | "5032441" | "5094780" | "5132054" | "5137658" | "5139615" | "5246759" | "5254410" | "5258216" | "5332609" | "5376341" | "5384188" | "5385873" | "5452551" | "5468348" | "5482686" | "5523059" | "5580532" | "5615711" | "5686039" | "5736109" | "5853675" | "5869010").PN.	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/04/01 11:41

S140	63449	"41" and (perlite or silicon dioxide or SiO2 or dialuminum trioxide or Al2O3 or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:41
S141	10	S139 and (perlite or silicon dioxide or SiO2 or dialuminum trioxide or Al2O3 or kandite or illite or smectite or kaolinite)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:42
S142	95	electrochemical and (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:52
S143	0	"electrochemical cell"and (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:52
S144	91	electrochemical and (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))) and (layer$4 or multilayer$4 or coat$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:53
S145	77	electrochemical and (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) and (vermiculite or mica or clay or (non intumescent or non-intumescent))) and (layer$4 or multilayer$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 11:53
S146	1	"3,441,381".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:05
S147	390	((expand$4 or exfoliat$4) adj graphite) with density	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:21
S148	50	((expand$4 or exfoliat$4) adj graphite) with density and (vermiculite or mica) and (layer$4 or multilayer$4)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:22
S149	7	11/293,540	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:24
S150	1	"4,704,231".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:29
S151	1	"3,409,563".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:32

S152	39	US-6171720-$.DID. OR US-6037073-$.DID. OR US-5300370-$.DID. OR US-6248467-$.DID. OR US-6939638-$.DID. OR US-6881512-$.DID. OR US-20040229993-$.DID. OR US-5527363-$.DID. OR US-5885728-$.DID. OR US-6037074-$.DID. OR US-3492197-$.DID. OR US-4265952-$.DID. OR US-4530949-$.DID. OR US-4729910-$.DID. OR US-4704231-$.DID. OR US-4946892-$.DID. OR US-20010046560-$.DID. OR US-6746771-$.DID. OR US-20070015267-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/04/01 13:40
S153	39	US-6171720-$.DID. OR US-6037073-$.DID. OR US-5300370-$.DID. OR US-6248467-$.DID. OR US-6939638-$.DID. OR US-6881512-$.DID. OR US-20040229993-$.DID. OR US-5527363-$.DID. OR US-5885728-$.DID. OR US-6037074-$.DID. OR US-3492197-$.DID. OR US-4265952-$.DID. OR US-4530949-$.DID. OR US-4729910-$.DID. OR US-4704231-$.DID. OR US-4946892-$.DID. OR US-20010046560-$.DID. OR US-6746771-$.DID. OR US-20070015267-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/04/01 13:40
S154	40	US-8001100-$.DID. OR US-20010046560-$.DID. OR US-20070015267-$.DID. OR US-5001500-$.DID. OR US-7001050-$.DID. OR US-5001200-$.DID. OR US-2110220-$.DID. OR US-1340117-$.DID. OR US-1171753-$.DID. OR US-1262161-$.DID. OR US-1338115-$.DID. OR US-1151725-$.DID. OR US-1703114-$.DID. OR US-1328133-$.DID. OR US-1101159-$.DID. OR US-2382651-$.DID. OR US-1305108-$.DID. OR US-1081619-$.DID. OR US-1198271-$.DID. OR US-4705875-$.DID. OR US-1601996-$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	OFF	2009/04/01 13:41
S155	3	S154 and (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) or (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:42
S156	11	S153 and (((expand$4 graphite) or (exfoliat$4 graphite) or intumescent) or (vermiculite or mica or clay or (non intumescent or non-intumescent)))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 13:44

S157	208	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) AND ((emboss$4 or perforat$4 or texture) near10 surface)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:13
S158	57	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) WITH ((emboss$4 or perforat$4 or texture) near10 surface)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:13
S159	49	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) WITH ((emboss$4 or perforat$4 or texture) near3 surface)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:13
S160	1	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) WITH ((emboss$4 or perforat$4 or texture) near3 surface) WITH (mm or cm)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:48
S161	2	"4,155,970".PN. OR "5385700". PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 14:58
S162	2	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) WITH ((emboss$4 or perforat$4 or texture) near10 surface) WITH (mm or cm)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:01
S163	1	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) Near10 (((emboss$4 or perforat$4 or texture) near10 surface) WITH (mm or cm))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:05
S164	1	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) Near10 (((emboss$4 or perforat$4 or texture) near10 surface) Near10 (mm or cm))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:06
S165	2	2004/0000391	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 15:08
S166	1	"20040000391".PN.	US-PGPUB	ADJ	OFF	2009/04/01 15:09
S167	1	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) Near10 (((emboss$4 or perforat$4 or texture or hole) near10 surface) Near10 (mm or cm))	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 17:19
S168	1	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) Near10 (((emboss$4 or perforat$4 or texture or hole) near10 surface) Near10 (mm or cm))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:19
S169	86	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) with (((emboss$4 or perforat$4 or texture or hole) with surface))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:20

S170	0	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) with (((emboss$4 or perforat$4 or texture or hole) with surface)) near10 (cm or mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:20
S171	27	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) with (((emboss$4 or perforat$4 or texture or hole))) same (cm or mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:21
S172	69	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) with (((emboss$4 or perforat$4 or texture or hole))) same2 (cm or mm)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 17:22
S173	0	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) (salt core or wax core)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:18
S174	1049	(salt core or wax core)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:19
S175	59	(salt core or wax core) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:19
S176	0	((expand$4 graphite) or (exfoliat $4 graphite) or (flexible graphite)) and (salt core or wax core)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:19
S177	53	(remov$4 or dissolv$4 or destruct $4) and (salt core or wax core) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:20
S178	47	(remov$4 or dissolv$4 or destruct $4) and (salt core or wax core) and graphite and (heat$4 or cool $4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:30

S179	0	vermiculite same lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:45
S180	0	vermiculite and lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:45
S181	5	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and lyophiliz$4 enzyme	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 18:46
S182	5	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and ((lyophiliz$4 or freeze dried or freeze-dried) adj enzyme)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:25
S183	15003	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and (enzyme)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:26
S184	14056	(vermiculite or mica or clay or (non intumescent or non-intumescent)) and (enzyme)	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:26
S185	1468	vermiculite and enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:27
S186	18	((expand$4 or exfoliat$4) adj vermiculite) and enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:28
S187	1	((expand$4 or exfoliat$4) adj vermiculite) same enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:31
S188	26	(vermiculite) same enzyme	US-PGPUB; USPAT	ADJ	OFF	2009/04/01 19:31
S189	5	(permanent core) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:34
S190	53934	(permanent core or tube) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:35

S191	12	(permanent adj (core or tube)) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:36
S192	126	((exfoliat$4 or expand$4 or flexible) adj graphite) same (((catalytic or catalyst) with metal) or (metal oxide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:40
S193	80	S192 and ("%" or percent)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/01 19:41
S194	1	"3389200".PN.	US-PGPUB; USPAT	ADJ	OFF	2009/04/02 15:47
S195	0	2002/0192457	US-PGPUB; USPAT	ADJ	OFF	2009/04/02 16:51
S196	0	2002/0192457	US-PGPUB	ADJ	OFF	2009/04/02 16:51
S197	1	"20020192457"	US-PGPUB	ADJ	OFF	2009/04/02 16:53
S198	0	("2002/0192457").URPN.	USPAT	ADJ	OFF	2009/04/02 16:56
S199	2536	graphite same surface same (textur$4 or emboss$4 or perforat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 16:59
S200	29	graphite surface same (textur$4 or emboss$4 or perforat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 16:59
S201	1130	graphite same (surface with (textur$4 or emboss$4 or perforat$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:09
S202	436	graphite with (surface with (textur$4 or emboss$4 or perforat$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:09

S203	12	(graphite adj (surface or face)) with (textur$4 or emboss$4 or perforat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:09
S204	132	graphite with (surface with (textur$4 or emboss$4 or perforat$4 or recess$4 or cavit$4)) and radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:18
S205	9	graphite with (surface with (textur$4 or emboss$4 or perforat$4 or recess$4 or cavit$4)) with radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:18
S206	0	(graphite adj (surface or face)) with (textur$4 or emboss$4 or perforat$4 or recess$4 or cavit$4 or groov$4) with radiation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:23
S207	49	(graphite adj (surface or face)) with (textur$4 or emboss$4 or perforat$4 or recess$4 or cavit$4 or groov$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:23
S208	60	(graphite adj (surface or face)) with (textur$4 or emboss$4 or perforat$4 or recess$4 or cavit$4 or groov$4 or hole)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:29
S209	11	S208 not S207	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:29
S210	49	S208 not S209	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:34
S211	277	(graphite adj (sheet)) with (textur$4 or emboss$4 or perforat$4 or recess$4 or cavit$4 or groov$4 or hole)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/04/02 17:46

| S212 | 28 | (graphite adj (sheet)) with (textur $4 or emboss$4 or perforat$4 or recess$4 or cavit$4 or groov$4 or hole) and radiation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | OFF | 2009/04/02 17:47 |

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